Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to roads and Drains at Allalsandra village in ward no-04 of Yelahanka Satellite Town Sub Division

Modified Schedule-B

Item No	Description	Unit	Quantity	Rate, Rs	
				In Figures	In Words
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P No-27,I No-5.33)	Sqm	0.00	116.53	Rupees One Hundred Sixteen And Paise Fifty Three Only
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 8km lead	Cum	237.72	225.40	Rupees Two Hundred Twenty Five And Paise Forty Only
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)	Cum	8.38	5676.73	Rupees Five Thousand Six Hundred Seventy Six And Paise Seventy Three Only
4	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc ,complete. As per the direction of Engineer incharge. (P.No 27, I No 5.30)	Nos	931.00	452.81	Rupees Four Hundred Fifty Two And Paise Eighty One Only
5	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I No.24.1 of PW, P&IWTD SR 2018-19)	Sqm	167.52	88.79	Rupees Eighty Eight And Paise Seventy Nine Only
6	Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm	532.26	2446.84	Rupees Two Thousand Four Hundred Forty Six And Paise Eighty Four Only
7	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No 301Loading and unloading with 8km lead= (I No-19.14,P No-143,KPWD SR 2018-19)	Cum	677.06	66.95	Rupees Sixty Six And Paise Ninety Five Only

	Description	Unit	Quantity	Rate, Rs	
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8	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision (I No-20 5,P No-153)	Cum	406.24	2088.68	Rupees Two Thousand Eighty Eight And Paise Sixty Eight Only
9	KSRRB M400-17 Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P No-155,I No-20 18)	Cum	622.90	2095.34	Rupees Two Thousand Ninety Five And Paise Thirty Four Only
10	KSRRB M500-6 Providing and applying primer coat with S S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0 60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P No-158,I No-21 6), issue rate dated 01-07-2020	Sqm	2708.24	31.07	Rupees Thirty One And Paise Seven Only
11	KSRRB 500-2 Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications (P No-158,I No-21 2)	Sqm	1911.94	5.55	Rupees Five And Paise Fifty Five Only
12	KSRRB 500-7 Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2 5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P No-161,I No-21 7) issue rate dated 01-07-2020	Sqm	4618.28	13.32	Rupees Thirteen And Paise Thirty Two Only
13	KSRRB M500-17 Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4 5 % VG-30 Bitumen (P No-160,I No-21 17 6), issue rate dated 01-07-2020	Cum	158.91	6708.86	Rupees Six Thousand Seven Hundred Eight And Paise Eighty Six Only

	Description	Unit	Quantity	Rate, Rs	
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14	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015 using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I.No-21.78.12), issue rate dated 01-07-2020	Cum	184.75	7891.93	Rupees Seven Thousand Eight Hundred Ninety One And Paise Ninety Three Only
15	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I.No-24.15)	Sqm	176.60	476.11	Rupees Four Hundred Seventy Six And Paise Eleven Only
16	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 – DO III Dt 11.06.1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer (P.No-187,I.No-24.41)	Nos	180.00	374.01	Rupees Three Hundred Seventy Four And Paise One Only

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